

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>R62598PC</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, Item 5 below.</small>	
International application No.  <b>PCT/EP2005/002920</b>	International filing date (day/month/year)  <b>18/03/2005</b>	(Earliest) Priority Date (day/month/year)  <b>18/03/2004</b>
Applicant  <b>REVOTAR BIOPHARMACEUTICALS AG</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2005/002920

### Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 7 is directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/EP2005/002920**

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C07C233/00 C07C237/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 340 700 B1 (AUGUET MICHEL ET AL) 22 January 2002 (2002-01-22)	1,2,4, 7-10
Y	*columns 1 and 2; the claims and compound with rn 214124-47-7: benzamide, N-'2-(4-aminophenylethyl)-3,4,5-trihydroxy *	3,5,6
X	----- DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002296238 retrieved from XFIRE accession no. BRN2765383 abstract ----- -/--	1,2,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*A\* document member of the same patent family

Date of the actual completion of the international search

7 June 2005

Date of mailing of the international search report

15/06/2005

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2005/002920

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002296239 retrieved from XFIRE accession no. BRN2763456 abstract</p> <p>-----</p>	1,2,4
X	<p>WO 99/29705 A2 (GLYCOMED INCORPORATED, USA; SANKYO CO., LTD.) 17 June 1999 (1999-06-17)</p>	1,2,4, 7-10
Y	<p>*the abstract; the examples; the claims and in particular compound 4-piperidinecarboxylic acid, 1-(3,4,5-trihydroxybenzoyl), rn:227462-58-0*</p> <p>-----</p>	3,5,6
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NOMOTO, TAKASHI ET AL: "Preparation of hydroxybenzamide derivatives as prevention and treatment agents for bone diseases" XP002296240 retrieved from STN Database accession no. 1996:513596 abstract &amp; JP 08 143525 A2 (BANYU PHARMA CO LTD, JAPAN) 4 June 1996 (1996-06-04)</p> <p>-----</p>	1,2,4
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NAKAJO, KYOSHI ET AL: "Silver halide color photographic material" XP002296241 retrieved from STN Database accession no. 1990:45554 abstract &amp; JP 01 120554 A2 (FUJI PHOTO FILM CO., LTD., JAPAN) 12 May 1989 (1989-05-12)</p> <p>-----</p>	1,2,4
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SAKAGAMI, MEGUMI: "Silver halide color photographic material" XP002296242 retrieved from STN Database accession no. 1987:467992 abstract &amp; JP 61 282839 A2 (FUJI PHOTO FILM CO., LTD., JAPAN) 13 December 1986 (1986-12-13)</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1,2,4

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002920

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 476 219 A (KEI, SAKANOU ET AL) 9 October 1984 (1984-10-09) Benzoic acid, 4-chloro-3-[(3,4,5-trihydroxybenzoyl)amino !-dodecyl ester, rn: 89946-84-9. -----	1,2,4
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; PASHCHENKO, E. N. ET AL: "Photometric determination of molybdenum in tungsten and its alloys as a carboxygallanilide complex" XP002296243 retrieved from STN Database accession no. 1976:536659 abstract & ZHURNAL ANALITICHESKOI KHIMII , 31(2), 400-1 CODEN: ZAKHAB; ISSN: 0044-4502, 1976, -----	1,2,4
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MAL'TSEV, V. F. ET AL: "Photometric determination of molybdenum" XP002296244 retrieved from STN Database accession no. 1975:612201 abstract & SU 480 000 T (USSR) 5 August 1975 (1975-08-05) -----	1,2,4
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MORLYAN, N. M. ET AL: "N-(3,4,5-Trimethoxybenzoyl)-p-aminobenzoic acid" XP002296245 retrieved from STN Database accession no. 1972:85515 abstract & METODY POLUCH. KHIM. REAKTIV. PREP. , NO. 20, 121-3 FROM: REF. ZH., KHIM. 1971, ABSTR. NO. 2ZH230, 1969, -----	1,2,4
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SLYUSARE, A. T. ET AL: "Dissociation of p-carboxygalllic anilide" XP002296246 retrieved from STN Database accession no. 1964:428806 abstract ----- -/--	1,2,4

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/002920

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>&amp; UCH. ZAP., KHAR'KOVSK. GOS. UNIV. 133, TR. KHIM. FAK. I NAUCHN.-ISSLED. INST. KHIM. , 133(19), 95-103, 1963,</p> <p>-----</p> <p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; LAPIN, N. N. ET AL: "Determination of titanium in heat-resistant steels" XP002296247 retrieved from STN Database accession no. 1964:86480 abstract</p> <p>&amp; SB. NAUCHN. TR. ZHDANOVSK. MET. INST. , (9), 103-7 FROM: REF. ZH., KHIM. 1963, ABSTR. NO. 20G101., 1963,</p> <p>-----</p>	1-6
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SLYUSAREV, A. T. ET AL: "Dissociation of p-carboxygallanilide" XP002296248 retrieved from STN Database accession no. 1962:446636 abstract</p> <p>&amp; UKRAINSKII KHIMICHESKII ZHURNAL (RUSSIAN EDITION) , 28, 309-15 CODEN: UKZHAU; ISSN: 0041-6045, 1962,</p> <p>-----</p>	1-6
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MANNING, D. L. ET AL: "Association constants of silver(I) and cyanide ions in molten equimolar sodium nitrate-potassium nitrate mixtures" XP002296249 retrieved from STN Database accession no. 1962:446635 abstract</p> <p>&amp; INORG. CHEM. , 1, 594-9, 1962,</p> <p>-----</p>	1-6
X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SHINGAKI, TADAO: "Reaction of substituted benzazides with benzylamine" XP002296250 retrieved from STN Database accession no. 1961:22545 abstract</p> <p>&amp; NIPPON KAGAKU ZASSHI , 80, 55-8 CODEN: NPKZAZ; ISSN: 0369-5387, 1959,</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-6

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002920

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CHEMABS 'Online!            CHEMICAL ABSTRACTS SERVICE, COLUMBUS,            OHIO, US;            SLYUSAREV, A. T. ET AL: "Gallic acid            anilides"            XP002296251            retrieved from STN            Database accession no. 1961:22544            abstract            &amp; UKRAINS'KII KHEMICHNII ZHURNAL , 26,            364-7 CODEN: UKHZAS; ISSN: 0372-4190,            1960,</p>	1-6
Y	<p>WO 2004/018502 A1 (YAMANOUCHI EUROPE B.V.,            NETH.) 4 March 2004 (2004-03-04)            *the whole document; in particular, table            3*</p>	1-10
Y	<p>WO 97/01569 A (CIBA GEIGY AG ; KOLB            HARTMUTH C (DE))            16 January 1997 (1997-01-16)            3-piperidinol,5-''3-0-''(1S)-1-carboxy-2-cy            clohexylethyl!-.beta.-D-galactopyranosyl!o            xy!-4-''(6-deoxy.alpha.-L-galactopyranosyl)            oxy!-1-(3,4,5-trihydroxybenzoyl)-monosodiu            m salt, (3R,4R,5R) and its use.</p>	1-10
Y	<p>EP 1 081 151 A (EISAI CO LTD ; MERCIAN            CORP (JP)) 7 March 2001 (2001-03-07)            the whole document</p>	1-10
Y	<p>WO 03/075905 A (LOPEZ-BELMONTE PASCUAL            JUAN ; BOBEL 246 S L (ES); LOPEZ-BELMONTE            PASCU) 18 September 2003 (2003-09-18)            the whole document</p>	1-10
Y	<p>APPELDOORN, CHANTAL C. M. ET AL:            "Rational Optimization of a Short Human P-            selectin -binding Peptide Leads to            Nanomolar Affinity Antagonists"            JOURNAL OF BIOLOGICAL CHEMISTRY , 278(12),            10201-10207 CODEN: JBCHA3; ISSN:            0021-9258, 2003, XP002275710            *the whole document; in particular, table            II*</p>	1-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002920

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			AU 733173 B2 10-05-2001
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			TR 9902382 T2 21-06-2000
			TW 587080 B 11-05-2004
			US 2003078420 A1 24-04-2003
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			US 2002045753 A1 18-04-2002
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			ZA 9802203 A 16-09-1998
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			JP 1550196 C 23-03-1990
			JP 58156932 A 19-09-1983
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WO 9701569	A	16-01-1997	AU 707474 B2 08-07-1999
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002920

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WO 9701569	A	CZ 9704197 A3 EA 1356 B1 WO 9701569 A1 EP 0836610 A1 HU 9801805 A2 JP 11508548 T NO 976065 A NZ 311686 A PL 324258 A1 SI 9620099 A SK 177897 A3 TR 9701728 T1	17-06-1998 26-02-2001 16-01-1997 22-04-1998 28-12-1998 27-07-1999 17-02-1998 28-01-2000 11-05-1998 31-08-1998 05-08-1998 21-03-1998
EP 1081151	A 07-03-2001	AU 3538699 A EP 1081151 A1 US 6645996 B1 WO 9960000 A1	06-12-1999 07-03-2001 11-11-2003 25-11-1999
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